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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,528	05/11/2005	Fridtjof Schroder	102790-190 (30076 US)	1066
1 27389 NORRIS MC	7590 11/26/2007 LAUGHLIN & MARCUS		EXAMINER	
875 THIRD AVE 18TH FLOOR NEW YORK, NY 10022			SHIAO, REI TSANG	
			ART UNIT	PAPER NUMBER
,		,	1626	
			MAIL DATE	DELIVERY MODE
			11/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/534,528	SCHRODER ET AL.			
Office Action Summa	Examiner	Art Unit			
	Rei-tsang Shiao, Ph.D.	1626			
	mmunication appears on the cover sheet wit	h the correspondence address			
Period for Reply	OD FOR REDLY 10 OFT TO EVEIDE A M	ONTURE OF THEFTY (20) DAVE			
WHICHEVER IS LONGER, FROM T - Extensions of time may be available under the prafter SIX (6) MONTHS from the mailing date of th - If NO period for reply is specified above, the max - Failure to reply within the set or extended period	mum statutory period will apply and will expire SIX (6) MONT for reply will, by statute, cause the application to become AB months after the mailing date of this communication, even if ti	CATION. poply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication	(s) filed on 19 September 2007.				
2a)⊠ This action is FINAL .					
3) Since this application is in con	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the	practice under <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.			
Disposition of Claims	·				
·	e pending in the application.				
	Claim(s) <u>1-4,7 and 10-13</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.				
5)⊠ Claim(s) <u>1 and 7</u> is/are allowed					
6) Claim(s) 10-13 is/are rejected.					
7) Claim(s) 2-4 is/are objected to					
8) Claim(s) are subject to	restriction and/or election requirement.				
Application Papers					
9) The specification is objected to	by the Examiner				
	s/are: a) accepted or b) objected to b	by the Examiner.			
- · ·	y objection to the drawing(s) be held in abeyand				
Replacement drawing sheet(s) inc	cluding the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is object	ted to by the Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119	•				
12)⊠ Acknowledgment is made of a	claim for foreign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None		(4)			
•	iority documents have been received.				
2. Certified copies of the pr	iority documents have been received in Ap	oplication No			
	ppies of the priority documents have been	received in this National Stage			
	rnational Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office	action for a list of the certified copies not r	eceived.			
Attachmost(s)					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Re	view (PTO-948) Paper No(s)	Paper No(s)/Mail Date			
 Information Disclosure Statement(s) (PTO/S Paper No(s)/Mail Date 	B/08) 5) Notice of In: 6) Other:				

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DETAILED ACTION

1. This application claims benefit of the foreign application: UNITED KINGDOM 0226550.2 with a filing date 11/14/2002.

- 2. Amendment including cancellation of claims 5-6 and 8-9, addition of claims 10-13 and a terminal disclaimer in the amendment filed on September 19, 2007 is acknowledged. Claims 1-4, 7, and 10-13 are pending in the application. No new matter is found. Since the newly added claims 10-13 are commensurate with the scope of the invention, claims 1-4, 7, and 10-13 are prosecuted in the case.
- 3. Amendment of claims 10-13 does not compile the Patent Rule 1.121(C). Amendments to a claim must be made by rewriting the entire claim with all changes (e.g., additions and deletions) as indicated in this subsection, except when the claim is being canceled. Each amendment document that includes a change to an existing claim, cancellation of an existing claim or addition of a new claim, must include a complete listing of all claims ever presented, including the text of all pending and withdrawn claims, in the application. The claim listing, including the text of the claims, in the amendment document will serve to replace all prior versions of the claims, in the application. In the claim listing, the status of every claim must be indicated after its claim number by using one of the following identifiers in a parenthetical expression: (Original), (Currently amended), (Canceled), (Withdrawn), (Previously presented), (New), and (Not entered). In the instant case, the identifiers of newly added claims 10-13 do not compile the Patent Rule.

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Responses to Amendment/Arguments

4. Since claims 5-6 and 8-9 have been cancelled, the rejection of claims 5-6 and 8-9 under 35 U.S.C. 112, second paragraph has been obviated herein.

5. Since the terminal disclaimer has been filed and approved in the Office, the provisional rejection of claims 1-4 and 7 under the obviousness-type double patenting over Natsch et al. co-pending application No. 11/746,401 has been overcome in the amendment filed on September 19, 2007. Since claims 5-6 and 8-9 have been cancelled, the rejection of claims 5-6 and 8-9 under the obviousness-type double patenting has been obviated herein.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 10-13 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for methods of use using compounds of formula (I) *in vitro*, does not reasonably provide enablement for methods of use using compounds of formula (I) *in vivo*. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims.

In *In re Wands*, 8 USPQ2d 1400 (1988), factors to be considered in determining whether a disclosure meets the enablement requirement of 35 U.S.C. 112, first

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paragraph, have been described. They are:

1. the nature of the invention,

2. the state of the prior art,

3. the predictability or lack thereof in the art,

4. the amount of direction or guidance present,

5. the presence or absence of working examples,

6. the breadth of the claims,

7. the quantity of experimentation needed, and

8. the level of the skill in the art.

In the instant case:

The nature of the invention

The nature of the invention of claims 10-13 is drawn to intent methods of use using compounds of formula (I) without limitation.

The state of the prior art and the predictability or lack thereof in the art

The state of the prior art is that the pharmacological art involves screening *in vitro* and *in vivo* to determine which compounds exhibit the desired pharmacological activities (i.e. what compounds can treat which specific diseases by what mechanism). There is no absolute predictability even in view of the seemingly high level of skill in the art. The existence of these obstacles establishes that the contemporary knowledge in

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the art would prevent one of ordinary skill in the art from accepting any therapeutic or preventive regimen on its face.

The instant claimed invention is highly unpredictable as discussed below:

It is noted that the pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. In re Fisher, 427 F.2d 833,166 USPQ 18 (CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statute.

Applicants are claiming intent methods of use using compounds of formula (I) effective to "inhibiting the enzyme in its ability to cleave compounds contained in sweat" As such, the specification fails to enable the skilled artisan to use without limitation. the compounds of claims effective to "inhibiting the enzyme in its ability to cleave compounds contained in sweat" without limitation.

In addition, there is no established correlation between in vitro or in vivo activity and accomplishing treatment of "inhibiting the enzyme in its ability to cleave compounds contained in sweat" without limitation, and those skilled in the art would not accept allegations in the instant specification to be reliable predictors of success, and those skilled in the art would not be able to use compounds of formula (I) since there is no description of an actual method wherein "inhibiting the enzyme in its ability to cleave compounds contained in sweat" without limitation in a host is treated.

Hence, one of skill in the art is unable to fully predict possible results from the administration of the compounds of formula (I) due to the unpredictability of the "inhibiting the enzyme in its ability to cleave compounds contained in sweat" without

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limitation. The "inhibiting the enzyme in its ability to cleave compounds contained in sweat" without limitation is known to have many obstacles that would prevent one of ordinary skill in the art from accepting treating regimen on its face.

The amount of direction or guidance present and the presence or absence of working examples

The only direction or guidance present in the instant specification is the listing of exemplary *in vitro* test of inhibiting enzyme activity, see pages 20-26 of the specification.

The breadth of the claims

The breadth of the claims is methods of use of the instant compounds effective to "inhibiting the enzyme in its ability to cleave compounds contained in sweat" without limitation. Furthermore, the instant claims cover "inhibiting the enzyme in its ability to cleave compounds contained in sweat" that are known to exist and those that may be discovered in the future, for which there is no enablement provided. Moreover, there is no reasonable basis for assuming the instant compounds of formula (I) embraced by the claims will share the same physiological properties.

The quantity of experimentation needed

The quantity of experimentation needed is undue experimentation. One of skill in the art would need to determine what "inhibiting the enzyme in its ability to cleave compounds contained in sweat" without limitation would be benefited (i.e., treated) by

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the administration of the instant compounds of formula (I) of the instant invention and would furthermore then have to determine which of the claimed methods of use would provide treatment of a disease, if any.

The level of the skill in the art

The level of skill in the art is high. However, due to the unpredictability in the pharmaceutical art, it is noted that each embodiment of the invention is required to be individually assessed for physiological activity by in vitro and in vivo screening to determine which methods of use exhibit the desired pharmacological activity and which diseases would benefit from this activity. Thus, the specification fails to provide sufficient support of the broad use of the pharmaceutical compounds of the instant claims for the "inhibiting the enzyme in its ability to cleave compounds contained in sweat" without limitation. As a result necessitating one of skill to perform an exhaustive search for which "inhibiting the enzyme in its ability to cleave compounds contained in sweat" without limitation, can be treated by what pharmaceutical compounds of the instant claims in order to practice the claimed invention.

Thus, factors such as "sufficient working examples", "the level of skill in the art" and "predictability", etc. have been demonstrated to be sufficiently lacking in the instantly claimed methods. In view of the breadth of the claim, the chemical nature of the invention, and the lack of working examples regarding the activity of the claimed compounds in regards to the treatment of the many diseases resulting from "inhibiting the enzyme in its ability to cleave compounds contained in sweat" without limitation, one

having ordinary skill in the art would have to undergo an undue amount of experimentation to use the invention commensurate in scope with the claims.

Genentech Inc. v. Novo Nordisk A/S (CA FC) 42 USPQ2d 1001, states that "a patent is not a hunting license. It is not a reward for search, but compensation for its successful conclusion" and "patent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable".

Therefore, in view of the Wands factors and In re Fisher (CCPA 1970) discussed above, to practice the claimed invention herein, a person of skill in the art would have to engage in undue experimentation, with no assurance of success. This rejection can be overcome by incorporation of the treated condition (i.e., in vitro) into claims 10-13 and respectively, would obviate the rejection.

7. Claims 1 and 7 are neither anticipated nor rendered obvious over the art of record, and therefore are allowable.

Claim Objections

- Claims 2-4 are objected to because of the following informalities: Since claim 2 8. is drawn to a composition, deletion of the preamble "a body odour-suppressing quantity" would obviate the objection.
- 9. This action is a **final rejection** and is intended to close the prosecution of this application. Applicant's reply under 37 CFR 1.113 to this action is limited either to an

appeal to the Board of Patent Appeals and Interferences or to an amendment complying with the requirements set forth below.

If applicant should desire to appeal any rejection made by the examiner, a Notice of Appeal must be filed within the period for reply identifying the rejected claim or claims appealed.

If applicant should desire to file an amendment, entry of a proposed amendment after final rejection cannot be made as a matter of right unless it merely cancels claims or complies with a formal requirement made earlier. Amendments touching the merits of the application which otherwise might not be proper may be admitted upon a showing a good and sufficient reasons why they are necessary and why they were not presented earlier.

A reply under 37 CFR 1.113 to a final rejection must include the appeal from, or cancellation of, each rejected claim. The filing of an amendment after final rejection, whether or not it is entered, does not stop the running of the statutory period for reply to the final rejection unless the examiner holds the claims to be in condition for allowance. Accordingly, if a Notice of Appeal has not been filed properly within the period for reply, or any extension of this period obtained under either 37 CFR 1.136(a) or (b), the application will become abandoned.

Conclusion

Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Rei-tsang Shiao whose telephone number is (571) 272-0707. The examiner can normally be reached on 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. McKane can be reached on (571) 272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rei-tsang Shiao, Ph.D.

Patent Examiner

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